Avian Diseases Index, 2000

Author Index

A

Abbassi, H. 776
Akinc, Sevinc 439
Alemañ, N. 465
Ali, A. 45, 313, 426, 439, 681, 938
Aoyagi, Takahiro 231
Applegate, Roger D. 953
Arboix, M. 210
Ardans, A. 239
Arné, P. 343
Asdrubali, G. 454
Avakian, Alan P. 536
Awamura, Naoke 291, 519
Aye, Pyone Pyone 809, 818

B

Back, A. 797, 957
Bacon, L. D. 913
Bahari, S. 853
Bailey, J. S. 715
Barbezange, Cyril 968
Barnes, H. J. 59, 105, 256, 297, 624
Bäyon-Auboyer, M. H. 977
Bearson, S. D. 618
Beck, J. R. 932
Beck, Joan R. 132
Bellstedt, D. U. 390
Benčina, Dušan 1017
Burmudez A. J. 449
Bilgili, S. F. 701
Blagburn, B. L. 479
Blignaut, A. 390
Boucher, M. 449
Bougioklis, Petros 372
Boviez, J. D. 711
Boykin, D. L. 618
Branton, S. L. 618
Brée, A. 343
Breitmeyer, R. 239
Breslin, J. J. 105, 624
Brisker, Thomas 989
Brothers, A. M. 490
Brown, Corrie 256
Brown, Gabriel 155
Brown, Susan E. 266
Brown, T. P. 318
Bryan, Thomas A. 498
Burch, Florence T. 201
Burger, W. P. 390
Busacaglia, Celina 114

C

Calnek, Bruce W. 114
Camarda, A. 907
Campagnoli, R. P. 470
Cardona, Carol 114, 661
Cerda, L. 51
Chang, Poa-Chun 125
Charlton, Bruce R. 721
Chérel, Y. 776
Choi, Kang D. 379
Cihla, Frank B. 809
Cliver, D. O. 853
Coletti, M. 454
Collier, S. D. 618
Cook, Jane K. A. 583
Cooper, George L. 721
Coudert, F. 776
Cox, N. A. 715
Craven, S. E. 715
Cristófol, C. 210

D

Daft, B. M. 239
Dambrine, G. 776
Danforth, H. D. 1
Davidson, William R. 953
Davis, Jennifer 827
Davis, S. 1
De Buysscher, Edward V. 34
'de Cotret, Allan Rene 963
De Herdt, P. 611
de Jong, W. A. 249
De Rosa, Morella 737
de Vries, T. S. 249
Dearth, R. N. 297
Deng, R. 170
Dho-Molin, M. 343
Di Fabio, Jose 582
Di Matteo, A. M. 507
Di Modugno, G. 907
Docherty, Douglas E. 266
Doetkott, Curt 23
Domingo, M. 227
Dorrestein, G. M.
Ducatelle, R. 611
Duckworth, Renée 948
Dutton, Richard S. 725

E

Ebert, Jessica O. 23
Edens, F. W. 59
Edson, R. K. 730
Edson, Robert K. 17
Ehmler, T. J. 449
El-Attrache, John 99
Elbers, A. R. W. 249
Enders, Frank 885
Erasmus, A. 655
Escorcia, M. 944
Eterradossi, N. 977
Evans, R. D. 730, 891

F

Fabri, T. 896
Fadly, A. M. 913
Farver, Thomas B. 668
Feberwee, A. 249
Fedorka-Cray, P. 715
Fehervari, T. 944
Ferrell, Shannon T. 460
Filip, Thomas 885
Fiorentin, L. 434
Foley, Steven L. 185
Franciosini, M. P. 454
Fujii, Haruhito 291
Fukanoki, Shin-ichi 869
Fukushi, Hideto 284
Fuller, Frederick J. 34
Fulton, R. M. 8, 1012

G

Gabler, Cornelia 885
Garcia, Maricarmen 527
Gardner, I. A. 239
Garritty, Adrian 963
Gast, Richard K. 706
Geisse, C. 51
Gelb, J., Jr. 325, 568
Georgopoulou, Ioanna 372
Gerdes, G. H. 655
Giambrone, J. J. 161
Gibbs, P. S. 318, 901
Giddings, Catherine W. 23, 179, 185
Gidlewski, Thomas 17
Gimeno, Isabel 770
Goll, F. 399
Gonzalez, C. 51
Grosse, Donald 536
Grund, Ch. 655
Guo, M. 600
Guy, J. S. 105, 624
Gyles, C. L. 759

H

Hagedorn, H.-W. 205
Hagwood, Lynn T. 803

Avian Diseases Index, 2000

Author Index

A

Abbassi, H. 776
Akinc, Sevinc 439
Alemañ, N. 465
Ali, A. 45, 313, 426, 439, 681, 938
Aoyagi, Takahiro 231
Applegate, Roger D. 953
Arboix, M. 210
Ardans, A. 239
Arné, P. 343
Asdrubali, G. 454
Avakian, Alan P. 536
Awamura, Naoke 291, 519
Aye, Pyone Pyone 809, 818

B

Back, A. 797, 957
Bacon, L. D. 913
Bahari, S. 853
Bailey, J. S. 715
Barbezange, Cyril 968
Barnes, H. J. 59, 105, 256, 297, 624
Bäyon-Auboyer, M. H. 977
Bearson, S. D. 618
Beck, J. R. 932
Beck, Joan R. 132
Bellstedt, D. U. 390
Benčina, Dušan 1017
Burmudez A. J. 449
Bilgili, S. F. 701
Blagburn, B. L. 479
Blignaut, A. 390
Boucher, M. 449
Bougioklis, Petros 372
Boviez, J. D. 711
Boykin, D. L. 618
Branton, S. L. 618
Brée, A. 343
Breitmeyer, R. 239
Breslin, J. J. 105, 624
Brisker, Thomas 989
Brothers, A. M. 490
Brown, Corrie 256
Brown, Gabriel 155
Brown, Susan E. 266
Brown, T. P. 318
Bryan, Thomas A. 498
Burch, Florence T. 201
Burger, W. P. 390
Busacaglia, Celina 114

C

Calnek, Bruce W. 114
Camarda, A. 907
Campagnoli, R. P. 470
Cardona, Carol 114, 661
Cerda, L. 51
Chang, Poa-Chun 125
Charlton, Bruce R. 721
Chérel, Y. 776
Choi, Kang D. 379
Cihla, Frank B. 809
Cliver, D. O. 853
Coletti, M. 454
Collier, S. D. 618
Cook, Jane K. A. 583
Cooper, George L. 721
Coudert, F. 776
Cox, N. A. 715
Craven, S. E. 715
Cristófol, C. 210

D

Daft, B. M. 239
Dambrine, G. 776
Danforth, H. D. 1
Davidson, William R. 953
Davis, Jennifer 827
Davis, S. 1
De Buysscher, Edward V. 34
'de Cotret, Allan Rene 963
De Herdt, P. 611
de Jong, W. A. 249
De Rosa, Morella 737
de Vries, T. S. 249
Dearth, R. N. 297
Deng, R. 170
Dho-Molin, M. 343
Di Fabio, Jose 582
Di Matteo, A. M. 507
Di Modugno, G. 907
Docherty, Douglas E. 266
Doetkott, Curt 23
Domingo, M. 227
Dorrestein, G. M.
Ducatelle, R. 611
Duckworth, Renée 948
Dutton, Richard S. 725

E

Ebert, Jessica O. 23
Edens, F. W. 59
Edson, R. K. 730
Edson, Robert K. 17
Ehmler, T. J. 449
El-Attrache, John 99
Elbers, A. R. W. 249
Enders, Frank 885
Erasmus, A. 655
Escorcia, M. 944
Eterradossi, N. 977
Evans, R. D. 730, 891

F

Fabri, T. 896
Fadly, A. M. 913
Farver, Thomas B. 668
Feberwee, A. 249
Fedorka-Cray, P. 715
Fehervari, T. 944
Ferrell, Shannon T. 460
Filip, Thomas 885
Fiorentin, L. 434
Foley, Steven L. 185
Franciosini, M. P. 454
Fujii, Haruhito 291
Fukanoki, Shin-ichi 869
Fukushi, Hideto 284
Fuller, Frederick J. 34
Fulton, R. M. 8, 1012

G

Gabler, Cornelia 885
Garcia, Maricarmen 527
Gardner, I. A. 239
Garritty, Adrian 963
Gast, Richard K. 706
Geisse, C. 51
Gelb, J., Jr. 325, 568
Georgopoulou, Ioanna 372
Gerdes, G. H. 655
Giambrone, J. J. 161
Gibbs, P. S. 318, 901
Giddings, Catherine W. 23, 179, 185
Gidlewski, Thomas 17
Gimeno, Isabel 770
Goll, F. 399
Gonzalez, C. 51
Grosse, Donald 536
Grund, Ch. 655
Guo, M. 600
Guy, J. S. 105, 624
Gyles, C. L. 759

H

Hagedorn, H.-W. 205
Hagwood, Lynn T. 803

Hahn, Tae Wook 691
Halvorson, D. A. 222, 336, 549, 725, 797, 957
Hamazaki, Naoki 215
Han, Jae Y. 379
Han, Jeong Hee 691
Hansen, Wallace R. 266
Harr, Brian S. 809, 989
Harris, Raymond W. 114
Heggen, C. L. 59
Henk, Adam 201
Hess, J. B. 701
Hess, M. 51
Hihara, Hiroshi 215
Hill, Geoffrey E. 948
Hilt, Deborah A. 650
Himathongkham, Sakchai 668, 853
Hirai, Katsuya 284
Hoerr, F. J. 161, 803
Hofacre, Charles L. 963
Hollifield, Julie L. 721
Holt, Peter S. 706
Hooper, Tom 498
Horne, Shelley M. 23, 179, 185
Huang, H. J. 790
Huggins, Michael B. 582
Humbert, Florence 968
Hunt, H. D. 913
Hutto, D. L. 642

I

Inoue, Takeshi 291, 519
Iordanidis, Prodromos 372
Ismail, M. M. 297

J

Jackwood, D. J. 691, 874
Jackwood, M. W. 650, 944
Jagne, Jara 661
Jeffrey, J. S. 74
Jenkins, Mark. C. 379
Jirjis, Faris F. 222
Jonas, Melina 818
Julian, R. J. 759

K

Kang, Sui-Wei 125
Kapczynski, Darrell R. 256
Kass, P. 853
Keeler, C. L., Jr., 325, 568
Keirs, R. W. 66
Kelly, Tamara F. 803
Khan, Mazhar I. 1000
Kik, M. J. L. 470
Kim, Dae Kyu 691
Kim, Sun-Joong 527
Kinde, H. 239
Kingham, B. F. 325, 568
Kinney, Nikki 132
Kleven, S. H. 697
Knoblich, H. V. 874
Knudson, Dennis L. 266
Kobatake, Rieko 519
Kobayashi, Masanori 284
Koci, Matthew D. 256
Kok, G. L. 556
Korn, N. 1007
Kösters, J. 676
Kunkle, Robert A. 197
Kwon, Hyuk Moo 691

L

Labuschagne, A. E. 655
Ladman, B. S. 325
Lalande, Françoise 968
Lambie, Nicole 155
Latimer, K. S. 470
Latshaw, J. David 809
Lavin, S. 227
Lee, Chang-Won 527, 650
Lee, Margie D. 201
Lee, Youn-Jeong 527
Leiting, V. A. 697
Lekkas, Stefanos 372
Leonard, Joan D. 519
Ley, Elizabeth C. 989
Lillehoj Erik P. 379, 408
Lillehoj, Hyun S. 305, 379, 408
Lin, Tsang Long 498
Line, E. 715
Link, Donald 536
Liu, X. 161
Loa, Chien Chang 498
Lopes, Vanessa 957
López, C. 944
Lott, B. D. 618
Lucio, B. 661, 944
Lucio-Martinez, Benjamin 114
Luginbuhl, R. E. 632
Lumeij, J. T. 470
Lutz, R. Scott 953

M

Macklin, K. S. 701
Madsen M. 993
Malo, Aristoteles 582
Manvell, R. J. 655
Maraqa, A. D. 138, 145
Marc, D. 343
Marco, I. 227
Martí, G. 210
Martinez-Lemus, L. A. 74
Mase, Masaji 192
Maslin, W. R. 618
Matsumoto, Kohei 869
Matsumoto, M. 790
Mattiello, R. 711
Maurer, J. J. 201, 318, 901, 963
May, J. D. 618
McComb, B. 797
McDougald, L. R. 711
Mehrotra, Yasmin 34
Meiser, H. 205
Meldrum, J. B. 730, 891
Miller, Erica A. 443
Miller, M. W. 74
Min, Wongi 305
Miyano, Norio 231
Mo, In-Pil 527
Mohan, Ram 989
Moore, Kristi M. 827
Mori, Hajime 869
Morishita, Teresa Y. 809, 818, 989
Morley, A. J. 390
Mrzel, Ivan 1017
Müller, M. G. 676
Murakawa, Yasushi 686

N

Naciri, M. 776
Nagaraja, K. V. 222, 239, 336, 549, 725, 797, 957
Nagatomo, Hiroshi 686
Nakamura, Kikuyasu 192, 215
Nashold, Sean W. 266
Nasti, R. 907
Nestor, Karl E. 197
Newell, D. G. 907, 983
Ngeleka, Musangu 155
Nieto, J. M. 465
Nix, W. A. 325, 568
Nolan, Lisa K. 23, 179, 185
Nolan, Paul M. 948
Nolan, Thomas J. 443
Noll, Sally L. 222
Norton, R. A. 701
Novilla, M. N. 730, 891
Nuanualsuwan, S. 853

O

O'Connell, P. 661
Odom, T. W. 74
Oesper, J. 313
Ogiso, Masakazu 215
Ohta, Hiroaki 291, 519
Orbell, Sarah J. 582
Otsuki, Koichi 291, 519

P

Panangala, V. S. 434
Panigrahy, B. 17, 642

Papaioannou, Nikolaos 372
Passamonti, F. 454
Patterson, Jon S. 1012
Pattison, M. 983
Paul, Guntrum 582
Pecelunas, K. 1
Pedersen, J. C. 17, 642, 681
Peighambari, S. M. 759
Pepper, T. M. 479
Petrone, V. M. 944
Pfaff-McDonough, Samantha J. 23, 179
Pfitzer, S. 655
Phalen, David 460
Pharr, G. T. 618
Plano, C. M. 507
Pol, J. M. A. 556

Q

Quiroga, M. I. 465
Qureshi, M. A. 59, 275, 297

R

Radi, Z. A. 399
Rajashekara, G. 239, 957
Rattenborg, E. 993
Read, D. H. 239
Reddy, Sanjay M. 770
Reed, Willie M. 1012
Reyes, E. 51
Reynolds, D. L. 45, 138, 145, 313, 426, 439, 681, 938
Riemann, H. 668, 853
Roberts, Sharon R. 948
Robertson, J. L. 730, 891
Robinson, Michael 185
Rolfe, Daniel L. 668
Rose, Valérie 968
Rosenbusch, R. F. 399
Rossini, Lavinia I. 582
Ruano, Miguel 99
Ryan, Joseph 155

S

Sacco, Randy E. 197
Saif, Y. M. 275, 297, 600, 809, 818
Sakamoto, Kuniaki 686
Salmon, Sarah A. 85
Salvat, Gilles 968
Sander, J. E. 901
Sandhu, Tirath 590
Sato, Takanori 827
Sato, Yoshihiko 231
Schat, K. A. 114, 661
Schildknecht, E. G. 1
Schmitt, B. J. 642
Schoemaker, N. J.
Schouler, C. 343
Schrader, D. 8, 498
Schultz-Cherry, Stacey 256, 861
Schulz, R. 205
Schwendenwein, Ilse 885
Scope, Alexandra 885
Seidl, Elfriede 885
Senne, D. A. 17, 356, 642, 977
Setiyono, Agus 284
Sharma, Jagdev M. 842
Shaw, D. P. 222, 336, 549, 725, 797, 957
Shawky, Samia 590
Sheikh, Anwar M. 222
Shi, Q. 66
Shieh, Happy K. 125
Shien, Jui-Hung 125
Shin, H. J. 797
Shivaprasad, H. L. 239, 590, 737
Shreeve, J. E. 983
Siarkou, Victoria 372
Silva, Byron G. M. 582
Silva, R. F. 913
Simmons, Valrie M. 256
Singh, P. 365
Smith, B. S. 399
Smith, L. G. 105, 624
Smith, M. Herbert 23
Sneep, A. 611
Soklaridis, Ute 885
Sommer, S. E. 874
Soñez, M. C. 507
Song, Chang-Seon 527
Song, K. 170
Song, Ki D. 379
Songserm, Th. 556
Spasojevic, Radivoje 725
Sprenger, Stephanie J. 549, 725
St. Hill, Catherine A. 842
Stern, N. J. 715
Suarez, David L. 356, 527, 861
Suesoshi, Masuo 686
Sugano, S. 545
Swayne, D. E. 132, 93

T

Takase, Kozo 686
Takeda, Reiji 869
Takigami, Shinji 284
Tang, Y. 600
Tateyama, S. 545
Taylor, W. D. 642
Téllez, G. 944
ter Huurne, A. A. H. M. 556
Thacker, H. Leon 498
Thayer, Stephan G. 963
Thayer, Stephen 201
Thurston, R. J. 1007
Toquin, D. 977
Torbeyns, R. 611
Toro, H. 51
Toszeghy, M. 983
Tottori, J. 545
Townsend, Evelyn 222, 336
Toyota, Yukiko 291, 519
Trampel, D. W. 399, 479
Tripathy, D. N. 365
Troeber, D. S. 568
Tsukamoto, Kenji 215

U

Uchida, K. 545
Uyttebroek, E. 611

V

Vaillancourt, J. P. 105
Vakharia, Vikram N. 379
Valladares, J. E. 210
van der Hage, M. H. 470
van der Heide, Louis 638
van Empel, P. 896
van Roozelaar, D. 556
van Veen, L. 896
Vázquez, S. 465
Verwoerd, D. J. 655
Villegas, Pedro 99
Vlemmas, Ioannis 372
von Lawzewitsch, I. 507

W

Wagenaar, F. 556
Wakenell, Patricia S. 536
Wang, C. 66
Wang, Xiuqing 1000
Ward, Marsha D. W. 34
Watkins, K. L. 730, 891
Watts, Jeffrey L. 85
Wedderkopp, A. 993
Weeks, Brad R. 460
Welte, Sallie C. 443
Wernery, U. 676
Whitfill, Craig E. 536
Will, M. 8
Williams, Christopher K. 953
Williams, Susan M. 1012
Witter, R. L. 770, 913
Woolcock, P. R. 737
Wooley, R. E. 318, 901
Wright, James C. 803
Wu, Ching Ching 498
Wyatt, R. D. 490

Y

Yamaguchi, R. 545
Yamaguchi, Shigeo 192
Yamaguchi, Tsuyoshi 284

Yamane, Yuji 291, 519
Yasuda, Atsushi 827
Yu, L. 170
Yu, M. 275, 297, 600
Yuasa, Noboru 192, 215
Yun, Cheol H. 305

Z

Zaki, Sherif 932
Zdovc, Irena 1017
Zhang, Q. 600
Zhang, Y. 170, 434
Zhu, Jingtao 305
Ziegler, Andre F. 443
Zorman-Rojs, Olga 1017

Subject Index, 2000

A

2000 AAAP Awards 749
adenoviruses
  causing hydropericardium syndrome 192
  causing inclusion body hepatitis 192
adhesin FimH
  role in *Escherichia coli* virulence 343
African grey parrots
  infected with psittacine circovirus 470
amino acid sequence
  for segment A of infectious bursal disease virus isolates 691
antibody response
  in *Eimeria* infections 305
  in water-in-oil-in-water emulsion vaccines 869
  vaccination for Newcastle disease virus 390
antibody titers
  to infectious bursal disease virus in broiler chicks 874
antifungal
  use in commercially manufactured feed 490
antigen release
  in water-in-oil-in-water emulsion vaccines 869
antigenic relationship
  between turkey rhinotracheitis virus strains 977
antimicrobial agents
  minimum inhibitory concentrations in turkey poults 85
antioxidant factors
  changes in levels in turkey knockdown syndrome 891
ascites
  and *Escherichia coli* infections in broilers 545
atoxoplasmosis
  diagnosis in a canary 465
avian influenza
  failure of vaccine to protect against 132
  highly pathogenic H5N2 isolates 356
  nucleotide and amino acid sequences 356
  Pennsylvania outbreak of 1983 356
  use as a model of the effect of eukaryotic expression vectors and adjuvants on DNA vaccines 861
avian influenza A virus
  occurrence in wild waterfowl in South Africa 655
avian influenza virus
  pathogenic evaluation of MS96 strain 527
  sequence analysis of hemagglutinin gene 527
  subtype H10N7 in an emu 737
avian leukosis virus
  subgroup J infection profiles in broiler breeder flocks 913
avian pneumovirus
  in Minnesota turkeys 222
  infectivity from turkeys to broilers 797
  susceptibility to various chemical and physical agents 336
avian pneumovirus/Colorado
  diagnostic test for Newcastle disease virus and 938
  infections in turkeys 17
  seroprevalence in US 17
  use of reverse transcription-polymerase chain reaction 681

B

bacteria
  effectiveness of antimicrobial agents 85
  use of disinfectants and EDTA-Tris solutions to control 901
blue-napped mousebird
  bacterial cholecystitis in 460
bone and bone marrow lesions
  in myeloid leukosis 215
Bordetella avium
  differences in susceptibility in turkeys 197
breeder flocks
  vaccination efficacy for *Salmonella enteritidis* 249
broiler breeder chickens
  avian leukosis virus subgroup J infection profiles 913
broiler chicks
  infectious bursal disease virus antibody titers 874
broilers
  ascites with *Escherichia coli* infection 545
  avian infectious bronchitis strains in Mexico 944
  efficacy of lasalocid and roxarsone against coccidia 1
  Escherichia coli infections 155
  infectious anemia virus and associated risk factors 803
  infectious bronchitis virus isolates 66
  interaction of vaccines for Marek's disease and infectious bronchitis 536
  lentogenic Newcastle disease virus in Japan 686
  myeloid leukosis in 215
  occurrence of *Campylobacter* spp. in Denmark 993
  Ornithobacterium rhinotracheale as primary pathogen 896
  pathogenesis of malabsorption syndrome 556
  polytetrafluorethylene gas intoxication 449
  pulmonary hypertension syndrome 74
  source and transmission of *Campylobacter jejuni* in multipen houses 983
  subtype strains of infectious bronchitis virus 568
  susceptibility to turkey avian pneumovirus 797
  use of vitamin E to control cellulitis 701
  vaccination efficacy for *Salmonella enteritidis* 249
bumblefoot
  relationship to lack of exercise and diet in falcons 676
bursa of Fabricius
  presence of circoviruslike particles 454

bursal atrophy
associated with infectious anemia virus 803

C

Campylobacter jejuni
genotyping strains in gut and oviducts 907
incidence in wild birds 715
source and transmission in broiler houses 983
Campylobacter spp.
survey in broilers in Denmark 933
canary
atoxoplasmosis 465
capercaillie
mycobacterium infection 227
myocardial infarction 231
cardiac rupture
in capercaillie 231
cell-mediated immunity
against Newcastle disease 145
cellulitis
use of vitamin E in control 701
chicken anemia virus
in combination with fowl adenovirus 51
chicken embryos
and exposure to Marek's disease serotype 1 842
chicken manure
use of drag swabs in sampling 668
chickens
Escherichia coli virulence 318
immune responses to *Eimeria* 305
infectious bronchitis virus serotypes 325
pathogenic properties of *Escherichia coli* 343
West Nile virus 642
chlamydiae
cause of ectropion in pigeons 372
cholecystitis
bacterial in blue-naped mousebird 460
circoviruslike particles
atrophy of lymphoid organs 454
clinical chemistry
reference values for lories 885
Clostridium perfringens
incidence in wild birds 715
coccidia
efficacy of lasalocid plus roxarsone 1
coccidiosis
acquired intestinal immunity 408
immune responses 305
use of recombinant protein in vaccines 379
vaccination strategies 408
colibacillosis
caused by virulent *Escherichia coli* 179
complement resistance-related traits in *E. coli* 23
pathogenesis of *Escherichia coli* MT78 mutant 343
coliforms
resistance to fluoroquinolone in litter 963
complement resistance
in *Escherichia coli* 23
conjunctivitis
in captive house finches 948
coronavirus
with *Escherichia coli* in turkeys 105
cryptosporidiosis
in urinary tracts of laying hens 479
Cryptosporidium baileyi
interaction with Marek's disease virus HPRS 16 strain 776
cytokines
production in poult enteritis and mortality syndrome 59

D

Denmark
national surevillance of *Campylobacter* in broilers 933
diagnostic tests
duck plague 266
direct automated cycle sequencing
use in infectious bronchitis virus serotype identification 325
disinfectants
effectiveness with EDTA-Tris solutions 901
DNA fingerprinting
of *Pasteurella multocida* serotype A 201
DNA vaccines
effect of eukaryotic expression vectors on 861
effect on adjuvants on 861
drag swabs
efficiency in sampling chicken manure 668
duck plague
rapid diagnostic test using polymerase chain reaction 266
duck virus enteritis
immunosuppression 590

E

eastern equine encephalitis
diagnosis using immunohistochemistry 1012
echocardiography
use in pulmonary hypertension syndrome 74
ectropion
in pigeons caused by *Chlamydia* 372
egg
contamination by *Salmonella enteritidis* 706
egg size
effects of vaccination for *Mycoplasma gallisepticum* 618
Eimeria
acquired immunity and vaccination 408
use of recombinant protein in vaccines 379
Eimeria acervulina
efficacy of lasalocid plus roxarsone 1
Eimeria brunetti
presence in chickens in Argentina 711
Eimeria maxima
immune response 305

Eimeria necatrix
presence in chickens in Argentina 711
ELISA see enzyme-linked immunosorbent assay
embryo lethality assay
testing virulence of *Escherichia coli* 318
emu
isolation of avian influenza virus H10N7 737
enzyme-linked immunosorbent assay
detection of *Ornithobacterium rhinotracheale* in turkeys 957
detection of turkey corona virus antibody 498
in identifying Newcastle disease virus antibodies 390
use in detecting *Salmonella enteritidis* carrier state 291
with a coated deflagellated SE antigen 291
Eos spp.
blood reference values 885
epidemiology
avian leukosis virus subgroup J in broiler breeder flocks 913
Erysipelothrix rhusiopathiae
outbreak in 2-day-old poults 721
erysipelas
outbreak in 2-day-old poults 721
Escherichia coli
antibiotic resistance in Trinidad 155
complement resistance in 179, 185
complement resistance-related traits 23
control of cellulitis with vitamin E 701
Δ*fimH* mutant of MT78 strain 343
immunity caused by Newcastle disease virus 790
importance in broilers with ascites 545
infections in broilers in Trinidad 155
iss gene in virulent forms of 179
Iss protein in virulent forms of 185
respiratory infections in broilers 759
virulence genes 23
virulence of isolates 318
with coronavirus in turkeys 105
Escherichia coli O157:H7
survival in poultry manure 853
eustrongylidiasis
occurrence in Eastern great blue herons 443
evolutionary rates
avian influenza H5N2 isolates 356

F

falcons
bumblefoot, lack of exercise, and diet 676
feed
control of fungus with natamycin 490
field trials
Salmonella enteritidis vaccination efficacy 249
flock management
conjunctivitis in house finches 948
fluorescent antibody assays
detection of stunting syndrome 313
fluoroquinolone
resistance in coliforms in poultry litter 963
formaldehyde fumigation
changes in respiratory tract in chickens 507
fowl adenovirus
in combination with chicken anemia virus 51
fowl cholera
outbreaks in vaccinated flocks 201
fowl poxvirus
monoclonal antibodies 365
fowl poxvirus vaccines
detection of reticuloendotheliosis virus contamination 827

G

genotyping
Campylobacter jejuni strains in oviducts of layers 907
great blue herons
presence of *Eustronglides ignotis* 443

H

Haemophilus paragallinarum
water-in-oil-in-water vaccines 869
hatcheries
use of disinfectants with EDTA-Tris solutions 901
hemagglutination assay
for infectious bronchitis virus 99
hematology
reference values for lories 885
herpesvirus
diagnostic tests for duck plague 266
polymerase chain reaction tests for duck plague 266
house finch
Mycoplasma gallisepticum infections 948
humeral immunity
response to infectious anemia virus 661
hydropericardium syndrome
caused by chicken anemia virus and fowl adenoviruses 51
pathogenicity in chicks 192

I

immune responses
in *Eimeria* infections 305
immunity
against Newcastle disease 145
changes found in poult enteritis mortality syndrome 256
to coccidiosis 408
to *Escherichia coli* induced by Newcastle disease virus 790
immunofluorescence
detection of *Mycoplasma iowae* using heterogeneous conjugate 697
immunohistochemistry
for detection of infectious bursal virus 161

for diagnosing eastern equine encephalitis 1012
methods for detecting *Mycoplasma gallisepticum* 399
use in detection of turkey coronavirus 624
immunosuppression
in duck virus enteritis isolate 590
in poult enteritis mortality syndrome 256
in ovo vaccination
to Marek's disease virus serotype 1 842
in situ hybridization
for detection of infectious bursal virus 161
inclusion body hepatitis
pathogenicity in chicks 192
inclusion body hepatitis/hydropericardium syndrome
caused by chicken anemia virus and fowl adenoviruses 51
indirect fluorescent antibody assay
detection of stunting syndrome 313
indomethacin
pharmacokinetics in poultry 210
infectious anemia virus
associated risk factors in broilers 803
humeral immune response to 661
propagation in Marek's disease cell cultures 114
infectious bronchitis virus
Arkansas-type isolates 66
changes in respiratory tract after vaccination 507
cross reactivity with turkey coronavirus 498
efficacy of vaccination for Ark serotype 568
identification of serotypes 325
interaction with Marek's disease vaccines 536
molecular characterization of strain CT/7852/97 1000
rapid-plate hemagglutination assay 99
role in *Escherichia coli* respiratory infections 759
S-1 genotype 225
serotypes found in Brazil 582
serotyping 1000
strains in Mexican broilers 944
subtypes of Arkansas serotype 568
infectious bursal disease virus
antibody titers after vaccination in broiler chicks 874
changes in virus population during serial passage 284
cloning and expression of VP2 gene in 170
DE072 strain 650
epidemiology in Europe 611
methods of detection 161
sequences in segment A 691
serologic testing 611
use of restriction fragment length polymorphism test 650
use of reverse transcription-polymerase chain reaction 650
very virulent form in Korea 691
infectious coryza
oil adjuvanted vaccines 869
infectious laryngotracheitis
caused by vaccine strains 125
infectious laryngotracheitis virus
cytidine homopolymer in 125
differentiation of strains 125
innate immunity
to *Escherichia coli* induced by Newcastle disease virus 790
interferon-γ
response to recombinant *Eimeria* protein 379
role in *Eimeria* infections 305
ionophore anticoccidials
role in turkey knockdown 730
iss gene
cloning and sequencing of 179
Iss protein
in virulent *Escherichia coli* 185

J

Japan
lentogenic Newcastle disease virus in broilers 686

K

Kansas
health status of bobwhite quail 953
Korea
infectious bursal disease 691

L

La Sota strain
Newcastle disease in ostriches 390
laryngotracheitis
efficacy of different routes of vaccination 8
lasalocid
efficacy on *Eimeria acervulina* 1
layer hens
Cryptosporidium in urinary tract 479
effects of *Mycoplasma gallisepticum* vaccination 618
infectious bronchitis virus strain outbreak after vaccination 1000
Ornithobacterium rhinotracheale infections 725
two different strains infected with *S. enteritidis*, phage type 4 239
vaccination for infectious laryngotracheitis 8
leukopenia
in peracute psittacine beak and feather disease 470
liver necrosis
in peracute psittacine beak and feather disease 470
lories
blood reference values 885
lymphocytes
effect of small round virus on subpopulations 275
lymphoproliferation
reduction caused by small round virus 275

M

macrophages
role in poult enteritis and mortality syndrome 59

malabsorption syndrome
history 638
pathogenesis in broilers 556
manure
survival of *Salmonella typhimurium* and *Escherichia coli* O157:H7 853
Marek's disease cell lines
use in chicken in infectious anemia virus propagation 114
Marek's disease vaccine
interaction with infectious bronchitis vaccine 536
Marek's disease virus
detection with a quantitative-competitive polymerase chain reaction assay 770
interaction of HPRS 16 strain and *Cryptosporidium baileyi* 776
Marek's disease virus serotype 1
pathogenesis and tumor induction in chick embryos 842
maternal antibodies
effect on infectious bursal disease virus antibody titers after vaccination 874
Mexico
avian infectious bronchitis strains in broilers 944
minimum inhibitory concentrations
determinations for various antimicrobial agents 85
Minnesota
avian pneumovirus in turkeys 336
monoclonal antibodies
against fowl poxvirus 365
specificity against fowl poxvirus strains 365
multiplex reverse transcription-polymerase chain reaction assay
for both avian pneumovirus and Newcastle disease virus 938
mycobacterium
in capercaillie 227
Mycoplasma gallisepticum
detection in turkeys 399
effects of vaccination on layers 618
immunohistochemistry 399
infections in captive house finches 948
ts-11 strain 618
Mycoplasma iowae
detection using immunofluorescence with heterogeneous conjugate 697
phenotypic variation 434
Mycoplasma synoviae
and *Ornithobacterium rhinotracheale* in turkeys 1017
myeloid leukosis
bone and bone marrow lesions 215
myocardial infarction
in capercaillie 231

N

natamycin
efficacy in commercially manufactured feed 490
neuraminidase
use in assay for infectious bronchitis virus 99
Newcastle disease
cell-mediated immunity 145
in South African ostriches 390
occurrence in wild waterfowl in South Africa 655
passive immunity 138
Texas GB strain 34
Newcastle disease virus
cause of innate immunity to Escherichia coli 790
diagnostic test for avian pneumovirus and 938
properties of lentogenic strain in broilers 686
vaccine for La Sota strain in ostriches 390
Newcastle disease virus vaccine
induces immunity to *Escherichia coli* 790
nitrite
production in poult enteritis and mortality syndrome 59
nonspecific immunity
to *Escherichia coli* induced by Newcastle disease virus 790
northern bobwhite
health status in Kansas 953
nucleotide sequence
changes in infectious bursal disease viruses 284
for segment A of infectious bursal disease virus isolates 691
of Newcastle virus disease strain Texas GB 34

O

Ornithobacterium rhinotracheale
and *Mycoplasma synoviae* infections in turkeys 1017
as a primary pathogen in broilers 896
in laying hens 725
use of enzyme-linked immunosorbent assay in turkeys 957
vaccination for turkeys 549
virulence in various breeds of broilers 896
ostriches
serologic survey of antibodies to pathogens 989
vaccination for Newcastle disease virus 390
outer membrane proteins
detection of *Ornithobacterium rhinotracheale* 957

P

passive immunity
against Newcastle disease 138
effectiveness against stunting syndrome 439
Pasteurella multocida
vaccine and fowl cholera outbreaks 201
pathogenesis
of Marek's disease virus serotype 1 in chick embryos 842
of *Pasteurella multocida* in vitamin A deficient turkeys 818
of West Nile virus in turkeys 932
pathology

changes due to vitamin A deficiency 809
phage type 4
Salmonella enteriditis infections in laying hens 239
pharmacokinetics
of endomethacin 210
pheasant
diagnostic test for eastern equine encephalitis 1012
phenotypic variation
in *Mycoplasma iowae* 434
pigeons
atrophy of lymphoid organs 454
circoviruslike particles 454
Chlamydia-induced ectropion 372
pyrogallol poisoning in 205
polymerase chain reaction
a quantitative-competitive test for Marek's disease using 770
detection of duck plague 266
in detection of infectious bursal virus 161
in detection of reticuloendotheliosis virus in vaccines 827
polytetrafluoroethylene gas
poisoning in broiler chickens 449
poult enteritis and mortality syndrome
coronavirus and *Escherichia coli* interaction in 105
cytokines and nitrites found in 59
identifying agent responsible 256
small round virus as causative agent 275
small round virus characteristics 600
viruses associated with 297
poultry litter
fluoroquinolone-resistant coliforms 963
primary lymphoid organs
atrophy in pigeons 454
primary pathogen
Ornithobacterium rhinotracheale in broilers 896
psittacine beak and feather disease
peracute form in African grey parrots 470
pulmonary hypertension syndrome
in broiler chickens 74
pyrogallol poisoning
caused by acorns 205

Q

quantitative-competitive polymerase chain reaction assay
detection of Marek's disease virus 770

R

recombinant fowl poxvirus vaccine
failure of vaccine to protect 132
recombinant protein
use in *Eimeria* vaccines 379
reovirus
history 638
resistance
to fluoroquinolone in coliforms 963
respiratory infections
caused by *Escherichia coli* 759
restriction fragment length polymorphism test
use in detection DE072 strain of infectious bronchitis virus 650
reticuloendotheliosis virus
contamination of fowl poxvirus vaccines 827
reverse transcription-polymerase chain reaction
for both avian pneumovirus and Newcastle disease virus 938
use in detecting avian pneumovirus (Colorado strain) 681
use in detection DE072 strain of infectious bronchitis virus 650
use in detecting turkey coronavirus 624
roxarsone
efficacy with lasalocid on coccidia 1

S

S-1 genes
use in infectious bronchitis virus serotype identification 325
Salmonella enteritidis
bacteriologic findings in laying hens 239
carrier state in chickens 291
enzyme-linked immunosorbent assay for detection in chickens 291
low-incidence infections 291
origin of infection at egg-laying farms 519
pathologic findings in laying hens 239
phage type 4 in laying hens 239
presence in yolk and albumen 706
role of thymus in transmission 256
vaccination efficacy in broiler-breeder flocks 249
Salmonella enteritidis bacterin
use for control of infections at egg-laying farms 519
Salmonella spp.
incidence in wild birds 715
Salmonella typhimurium
safety aspects of live vaccines 968
survival in poultry manure 853
sampling methods
efficiency of drag swabs 668
semen quality
in turkey with duplicate cloaca and vent 1007
sequence analysis
avian influenza H5N2 isolates 356
seroconversion
in chickens to infectious anemia virus 661
serologic detection
of *Ornithobacterium rhinotracheale* 957
serologic survey
of ostriches for antibodies to pathogens 989
small round virus
characteristics 600
in poult enteritis and mortality syndrome 297, 600
role in poult enteritis and mortality syndrome 275, 297

South Africa
Newcastle disease and avian influenza A virus in wild waterfowl 655
Newcastle disease in ostriches 390
specific-pathogen-free eggs and chickens, history 632
squamous metaplasia
due to vitamin A deficiency 809
due to vitamin A deficiency and *Pasteurella multocida* 818
stunting syndrome
diagnostic tests 313
passive immunity in turkey poults 439
stunting syndrome agent
characteristics 45
comparison to known viruses 45
physicochemical properties 426
surface antigens
phenotypic variation in *Mycoplasma iowae* 434
swollen head syndrome
detection methods for avian pneumovirus (Colorado strain) 681

T

T cells
changes in poult enteritis mortality syndrome 256
thymic atrophy
associated with infectious anemia virus 803
thymus
role in transmission of poult enteritis mortality syndrome 256
toe trimming
as cause of erysipelas outbreak in poults 721
tumor induction
in chickens after exposure to Marek's disease virus serotype 1 842
turkeys
avian pneumovirus in 222
changes due to vitamin A deficiency 809
coronavirus and *Escherichia coli* in 105
detection of *Mycoplasma gallisepticum* 399
detection of *Ornithobacterium rhinotracheale* 957
detection of stunting syndrome 313
effectiveness of antimicrobial agents in poults 85
identifying agent in poult enteritis mortality syndrome 256
Ornithobacterium rhinotracheale and *Mycoplasma synoviae* infections 1021
passive immunity to stunting syndrome in poults 439
pathogenicity of West Nile virus in 932
poult enteritis and mortality syndrome 59
role of thymus in transmitting poult enteritis and mortality syndrome 256
semen quality in reproductive malformations 1007
stunting syndrome agent 45
stunting syndrome agent characteristics 426
susceptibilities of avian pneumovirus to various agents 336
susceptibility of broilers to avian pneumovirus from 797
susceptibility to *Bordetella avium* 197
turkey corona virus in poult enteritis and mortality syndrome 297
vaccine for *Ornithobacterium rhinotracheale* 549
vitamin A deficiency and *Pasteurella multocida* 818
turkey coronavirus
detection by various means 624
detection of antibody by enzyme-linked immunosorbent assay 498
role in poult enteritis and mortality syndrome 297
turkey knockdown syndrome
and decrease in water consumption 730
changes in levels of antioxidant factors in 891
turkey rhinotracheitis
caused by avian pneumovirus/Colorado 17
detection methods for avian pneumovirus (Colorado strain) 681
diagnostic test for Newcastle disease and 938
turkey rhinotracheitis virus
relationship between French and North American strains 977

U

United Arab Emirates
bumblefoot in falcons 676

V

vaccination
against Newcastle disease in ostriches 390
for coccidiosis 408
for infectious laryngotracheitis in layers 8
use of recombinant *Eimeria* protein 379
vaccines
changes in infectious bursal disease virus during serial passage 284
compatibility of Marek's disease and infectious bronchitis vaccinations 536
effectiveness against fowl poxvirus 365
for *Ornithobacterium rhinotracheale* in turkeys 549
safety of various live *Salmonella typhimurium* 968
use of recombinant fowl pox virus against avian influenza 132
virulence
mechanism in *Escherichia coli* 23
of *Escherichia coli* 318
use of embryo lethality assay 318
virus isolation
use in detection of turkey coronavirus 624
virus populations
changes in infectious bursal disease virus during serial passages 284

virus propagation
of chicken infectious anemia virus 114
vitamin A deficiency
pathologic changes in turkeys 809
and *Pasteurella multocida* infections in turkeys 818
vitamin E
and susceptibility to turkey knockdown syndrome 891
role in turkey knockdown 730
use in controlling cellulitis 701
VP2 gene
cloning and expression of 170

W

waterfowl
polymerase chain reaction test for duck plague 266
water-in-oil-in-water emulsions
use in vaccines 869
West Nile virus
pathogenicity in chickens 642
pathogenicity in turkeys 932
wild waterfowl
occurrence of Newcastle disease and avian influenza A virus 655